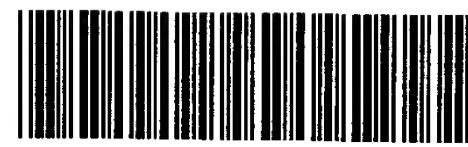


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/910,208B
Source: IFW/6
Date Processed by STIC: 12/22/04

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,208B

DATE: 12/22/2004

TIME: 16:46:26

Input Set : N:\AMC\I910208b.raw

Output Set: N:\CRF4\12222004\I910208B.raw

1 <110> APPLICANT: Hitomi, Jiro
 2 Yamamura, Tokujiro
 3 Kimura, Tatsuji
 4 Yamaguchi, Ken
 5 <120> TITLE OF INVENTION: Novel Calcium-Binding Proteins
 6 <130> FILE REFERENCE: MM4454
 C--> 7 <140> CURRENT APPLICATION NUMBER: US/09/910,208B
 8 <141> CURRENT FILING DATE: 2001-07-20
 9 <160> NUMBER OF SEQ ID NOS: 18
 10 <170> SOFTWARE: PatentIn version 3.2
 12 <210> SEQ ID NO: 1
 13 <211> LENGTH: 429
 14 <212> TYPE: DNA
 15 <213> ORGANISM: calcium-binding protein
 16 <220> FEATURE:
 17 <221> NAME/KEY: exon
 18 <222> LOCATION: (48)..(323)
 19 <223> OTHER INFORMATION: Amino acid sequence of calcium-binding protein from bovine
 20 amniotic fluid
 21 <400> SEQUENCE: 1
 22 ctggcattcc acacttctgt gcagaggggt gaacgttagtt tggtaaa atg act aag 56
 23 Met Thr Lys
 24 1
 25 ctg gaa gat cac ctg gag gga atc atc aac atc ttc cac cag tac tcc 104
 26 Leu Glu Asp His Leu Glu Gly Ile Ile Asn Ile Phe His Gln Tyr Ser
 27 5 10 15
 28 gtt cgg gtg ggg cat ttc gac acc ctc aac aag cgt gag ctg aag cag 152
 29 Val Arg Val Gly His Phe Asp Thr Leu Asn Lys Arg Glu Leu Lys Gln
 30 20 25 30 35
 31 ctg atc aca aag gaa ctt ccc aaa acc ctc cag aac acc aaa gat caa 200
 32 Leu Ile Thr Lys Glu Leu Pro Lys Thr Leu Gln Asn Thr Lys Asp Gln
 33 40 45 50
 34 cct acc att gac aaa ata ttc caa gac ctg gat gcc gat aaa gac gga 248
 35 Pro Thr Ile Asp Lys Ile Phe Gln Asp Leu Asp Ala Asp Lys Asp Gly
 36 55 60 65
 37 gcc gtc agc ttt gag gaa ttc gta gtc ctg gtg tcc agg gtg ctg aaa 296
 38 Ala Val Ser Phe Glu Glu Phe Val Val Leu Val Ser Arg Val Leu Lys
 39 70 75 80
 40 aca gcc cac ata gat atc cac aaa gag taggaagctc tttccagcaa 343
 41 Thr Ala His Ile Asp Ile His Lys Glu
 42 85 90
 43 tgtccccaaag aagacttacc cttctcctcc ctgaggctgc cttacccgag ggaagagaga 403
 44 attaataaac gtactttggc aaagtt 429

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,208B

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Input Set : N:\AMC\I910208b.raw

Output Set: N:\CRF4\12222004\I910208B.raw

46 <210> SEQ ID NO: 2
47 <211> LENGTH: 50
48 <212> TYPE: PRT
49 <213> ORGANISM: Bos taurus
50 <400> SEQUENCE: 2
51 Thr Lys Leu Glu His Leu Glu Gly Ile Ile Asn Ile Phe His Gln Tyr
52 1 5 10 15
53 Ser Val Arg Val Gly His Phe Asp Thr Leu Asn Lys Arg Glu Leu Lys
54 20 25 30
55 Gln Leu Ile Thr Lys Glu Leu Pro Lys Thr Leu Gln Asn Thr Lys Asp
56 35 40 45
57 Gln Pro
58 50
60 <210> SEQ ID NO: 3
61 <211> LENGTH: 8
62 <212> TYPE: PRT
63 <213> ORGANISM: Bos taurus
64 <400> SEQUENCE: 3
65 Ile Phe Gln Asp Leu Asp Ala Asp
66 1 5
68 <210> SEQ ID NO: 4
69 <211> LENGTH: 12
70 <212> TYPE: PRT
71 <213> ORGANISM: Bos taurus
72 <400> SEQUENCE: 4
73 Asp Gly Ala Val Ser Phe Glu Glu Phe Val Val Leu
74 1 5 10
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 9
78 <212> TYPE: PRT
79 <213> ORGANISM: Bos taurus
80 <400> SEQUENCE: 5
81 Thr Ala His Ile Asp Ile His Lys Glu
82 1 5
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 31
86 <212> TYPE: PRT
87 <213> ORGANISM: Bos taurus
88 <400> SEQUENCE: 6
89 Leu Pro Lys Thr Leu Gln Asn Thr Lys Asp Gln Pro Thr Ile Asp Lys
90 1 5 10 15
91 Ile Phe Gln Asp Leu Asp Ala Asp Lys Asp Gly Ala Val Ser Phe
92 20 25 30
94 <210> SEQ ID NO: 7
95 <211> LENGTH: 20
96 <212> TYPE: PRT
97 <213> ORGANISM: Bos taurus
98 <400> SEQUENCE: 7
99 Glu Phe Val Val Leu Val Ser Arg Val Leu Lys Arg Ala His Ile Asp

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,208B

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TIME: 16:46:26

Input Set : N:\AMC\I910208b.raw
 Output Set: N:\CRF4\12222004\I910208B.raw

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100      1           5           10           15
101      Ile His Lys Glu
102          20
104 <210> SEQ ID NO: 8
105 <211> LENGTH: 20
106 <212> TYPE: DNA
107 <213> ORGANISM: artificial
108 <220> FEATURE:
109 <223> OTHER INFORMATION: sense primer
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (3)..(3)
113 <223> OTHER INFORMATION: n is a, c, g, or t
114 <220> FEATURE:
115 <221> NAME/KEY: misc_feature
116 <222> LOCATION: (15)..(15)
117 <223> OTHER INFORMATION: n is a, c, g, or t
118 <400> SEQUENCE: 8
W--> 119      ttngargayc ayytngargg          20
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 20
123 <212> TYPE: DNA
124 <213> ORGANISM: artificial
125 <220> FEATURE:
126 <223> OTHER INFORMATION: antisense primer
127 <220> FEATURE:
128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (18)..(18)
130 <223> OTHER INFORMATION: n is a, c, g, or t
131 <400> SEQUENCE: 9
W--> 132      ttrtgdatrt cdatrtgngc          20
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 23
136 <212> TYPE: DNA
137 <213> ORGANISM: artificial
138 <220> FEATURE:
139 <223> OTHER INFORMATION: forward primer
140 <400> SEQUENCE: 10
141      ggtggcacga ctcctggagc ccg          23
143 <210> SEQ ID NO: 11
144 <211> LENGTH: 24
145 <212> TYPE: DNA
146 <213> ORGANISM: artificial
147 <220> FEATURE:
148 <223> OTHER INFORMATION: reverse primer
149 <400> SEQUENCE: 11
150      ttgacaccag accaactggt aatg          24
152 <210> SEQ ID NO: 12
153 <211> LENGTH: 440

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RAW SEQUENCE LISTING

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DATE: 12/22/2004

TIME: 16:46:26

Input Set : N:\AMC\I910208b.raw

Output Set: N:\CRF4\12222004\I910208B.raw

154 <212> TYPE: DNA
 155 <213> ORGANISM: humab calcium-binding protein
 156 <220> FEATURE:
 157 <221> NAME/KEY: exon
 158 <222> LOCATION: (22) .. (297)
 159 <223> OTHER INFORMATION: Deduced amino acid sequence for human calcium-binding protein.

160 <400> SEQUENCE: 12
 161 ggttaacatt aggctggaa g atg aca aaa ctt gaa gag cat ctg gag gga 51
 162 Met Thr Lys Leu Glu Glu His Leu Glu Gly
 163 1 5 10
 164 att gtc aat atc ttc cac caa tac tca gtt cgg aag ggg cat ttt gac 99
 165 Ile Val Asn Ile Phe His Gln Tyr Ser Val Arg Lys Gly His Phe Asp
 166 15 20 25
 167 acc ctc tct aag ggt gag ctg aag cag ctg ctt aca aag gag ctt gca 147
 168 Thr Leu Ser Lys Gly Glu Leu Lys Gln Leu Leu Thr Lys Glu Leu Ala
 169 30 35 40
 170 aac acc atc aag aat atc aaa gat aaa gct gtc att gat gaa ata ttc 195
 171 Asn Thr Ile Lys Asn Ile Lys Asp Lys Ala Val Ile Asp Glu Ile Phe
 172 45 50 55
 173 caa ggc ctg gat gct aat caa gat gaa cag gtc gac ttt caa gaa ttc 243
 174 Gln Gly Leu Asp Ala Asn Gln Asp Glu Gln Val Asp Phe Gln Glu Phe
 175 60 65 70
 176 ata tcc ctg gta gcc att gcg ctg aag gct gcc cat tac cac acc cac 291
 177 Ile Ser Leu Val Ala Ile Ala Leu Lys Ala Ala His Tyr His Thr His
 178 75 80 85 90
 179 aaa gag tagtagctc tctgaagctt tttacccagc aatgtcctca atgagggtct 347
 180 Lys Glu
 181 tttcttccc tcaccaaaac ccagccttgc ccgtggggag taagagttaa taaacacact 407
 182 cacaaaaagt taaaaaaaaaaa aaaaaaaaaat tct 440
 184 <210> SEQ ID NO: 13
 185 <211> LENGTH: 20
 186 <212> TYPE: DNA
 187 <213> ORGANISM: artificial
 188 <220> FEATURE:
 189 <223> OTHER INFORMATION: sense primer
 190 <400> SEQUENCE: 13
 191 actatcaaca tcttccacca 20
 193 <210> SEQ ID NO: 14
 194 <211> LENGTH: 20
 195 <212> TYPE: DNA
 196 <213> ORGANISM: artificial
 197 <220> FEATURE:
 198 <223> OTHER INFORMATION: antisense primer
 199 <400> SEQUENCE: 14
 200 tctttatcg catccaggc 20
 202 <210> SEQ ID NO: 15
 203 <211> LENGTH: 15
 204 <212> TYPE: DNA
 205 <213> ORGANISM: artificial

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,208B

DATE: 12/22/2004

TIME: 16:46:26

Input Set : N:\AMC\I910208b.raw
Output Set: N:\CRF4\12222004\I910208B.raw

206 <220> FEATURE:
207 <223> OTHER INFORMATION: primer PMN.HP7S 1-15
208 <400> SEQUENCE: 15
209 tactcagttc ggaag 15
211 <210> SEQ ID NO: 16
212 <211> LENGTH: 15
213 <212> TYPE: DNA
214 <213> ORGANISM: artificial
215 <220> FEATURE:
216 <223> OTHER INFORMATION: primer PMN.HP7A 126-112
217 <400> SEQUENCE: 16
218 ttggaatatt tcatac 15
220 <210> SEQ ID NO: 17
221 <211> LENGTH: 20
222 <212> TYPE: DNA
223 <213> ORGANISM: artificial
224 <220> FEATURE:
225 <223> OTHER INFORMATION: primer HP7S 7-26
226 <400> SEQUENCE: 17
227 acattaggct ggaaagatga 20
229 <210> SEQ ID NO: 18
230 <211> LENGTH: 20
231 <212> TYPE: DNA
232 <213> ORGANISM: artificial
233 <220> FEATURE:
234 <223> OTHER INFORMATION: primer HP7A 336-317
235 <400> SEQUENCE: 18
236 ggacattgct ggtaaaaaag 20

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/910,208B

DATE: 12/22/2004
TIME: 16:46:27

Input Set : N:\AMC\I910208b.raw
Output Set: N:\CRF4\12222004\I910208B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 3,15

Seq#:9; N Pos. 18

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 19

Seq#:12; Line(s) 159

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:8,9,10,11,13,14,15,16,17,18

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/910,208B

DATE: 12/22/2004

TIME: 16:46:27

Input Set : N:\AMC\I910208b.raw

Output Set: N:\CRF4\12222004\I910208B.raw

L:7 M:270 C: Current Application Number differs, Wrong Format
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0